

WHAT IS CLAIMED IS:

July 62 1. A liquid jet recording head comprising a constituting member formed from a cured product of a resin composition comprising:

- 5 (1) a curable epoxy compound,
(2) a compound having a functional group reactive to the curable epoxy compound and a fluorocarbon moiety, and
(3) a curing agent.

10

2. The liquid jet recording head according to claim 1, wherein the curing agent is a cationic polymerization initiator, and the resin composition is cured by cationic polymerization.

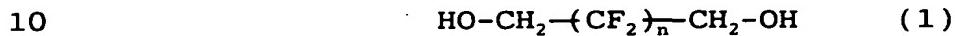
15

3. The liquid jet recording head according to claim 1, wherein the compound having a functional group reactive to the curable epoxy compound and a fluorocarbon moiety is contained in the resin composition at a content ranging from 1% to 50% by weight.

20
25
4. The liquid jet recording head according to claim 1, wherein the compound having a functional group reactive to the curable epoxy compound and a fluorocarbon moiety contains fluorine at content ranging from 20% to 80% by weight.

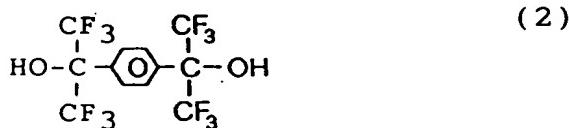
5. The liquid jet recording head according to claim 1, wherein the functional group reactive to the curable epoxy compound is a hydroxyl group.

5 6. The liquid jet recording head according to claim 5, wherein the compound having a functional group reactive to the curable epoxy compound and a fluorocarbon moiety is represented by General Formula (1):



where n is an integer of from 1 to 20.

15 7. The liquid jet recording head according to claim 5, wherein the compound having a functional group reactive to the curable epoxy compound and a fluorocarbon moiety is represented by General Formula (2):



8. The liquid jet recording head according to claim 1, wherein the curable epoxy compound is selected from aromatic epoxy compounds.

25

9. The liquid jet recording head according

to claim 1, wherein the curable epoxy compound is selected from alicyclic epoxy compounds.

10. The liquid jet recording head according
5 to claim 1, wherein the curable epoxy compound is selected from epoxy compounds having an oxycyclohexane skeleton in the molecular structure thereof.

Sub-B1

10 11. A process for producing a liquid jet recording head, comprising the steps of:
(I) forming an ink flow path pattern from a soluble resin on an ink discharge pressure-generating element on a base plate,
(II) forming a coating resin layer on the soluble resin
15 layer, and
(III) removing the soluble resin layer by elution, wherein the coating resin layer is formed from a cured product of a resin composition comprising:
(1) a curable epoxy compound,
20 (2) a compound having a functional group reactive to the curable epoxy compound and a fluorocarbon moiety, and
(3) a curing agent.

25 12. The process for producing a liquid jet recording head according to claim 11, wherein the process further comprises a step of forming an

B

discharge opening through the coating resin layer.

13. The process for producing a liquid jet recording head according to claim 12, wherein the
5 coating resin layer is formed from a photosensitive resin, and the discharge opening is formed by photolithography.

14. The process for producing a liquid jet recording head according to claim 12, wherein the
10 discharge opening is formed by oxygen plasma etching.

15. The process for producing a liquid jet recording head according to claim 12, wherein the
15 discharge opening is formed by excimer laser irradiation.